



MVDR BASED FEATURE EXTRACTION FOR SPEECH RECOGNITION

ABSTRACT OF THE DISCLOSURE

There is provided a method for extracting feature
vectors from a digitized utterance. Spectral envelope
5 estimates are computed from overlapping frames in the
digitized utterance based on a Minimum Variance
Distortionless Response (MVDR) method. Cepstral feature
vectors are generated from the spectral envelope estimates.
There is provided a method for generating spectral envelope
10 estimates from a digitized utterance. The spectral envelope
estimates are generated from overlapping frames in the
digitized utterance based on a harmonic mean of at least two
low- to-high resolution spectrum estimates. There is
provided a method for reducing variance of a feature stream
15 in a pattern recognition system. The feature stream is
temporally or spatially averaged to reduce the variance of
the feature stream.